

PolyOne Gravi-Tech™ GRV-NY-030-SS Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Gravi-Tech-GRV-NY-030-SS-Polyamide-6-Nylon-6.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 2.99 g/cc | 2.99 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0090 cm/cm | 0.0060 - 0.0090 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-------------------------------|
| Tensile Strength, Yield | 68.3 MPa | 9910 psi | Type I, 5.1 mm/min; ASTM D638 |
| Elongation at Break | 1.7 % | 1.7 % | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 7.24 GPa | 1050 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Modulus | 5.72 GPa | 830 ksi | ASTM D790 |
| Izod Impact, Notched | 0.530 J/cm @Thickness 6.35 mm, Temperature 23.0 °C | 0.993 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 149 °C @Thickness 6.35 mm | 300 °F @Thickness 0.250 in | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Melt Temperature | 260 - 288 °C | 500 - 550 °F | |
| Mold Temperature | 82.2 - 149 °C | 180 - 300 °F | |
| Drying Temperature | 79.4 °C | 175 °F | |
| Dry Time | 4.00 hour | 4.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------|----------|
| Features | Non-Toxic | |
| Forms | Pellets | |

| Generic Material Descriptive Properties | Nylon 6 Value | Comments |
|--|---------------------------------|-----------------|
| Generic Name | Polyamide 6 (Nylon 6) | |
| Processing Method | Injection Molding | |
| Regional Availability | Asia Pacific | |
| Uses | Industrial Applications | |
| | Medical/Healthcare Applications | |
| | Projectiles | |
| | Sporting Goods | |
| | Weighting & Balancing | |

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